

FIG. 5A  
BY-RECIPE FEATURE-QUANTITY TEMPLATE

## BAKED APPLE AND TOMATO

INGREDIENT NAME	CUTTING	PEELING
APPLE	✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]
TOMATO	◎(FINE CUTTING) $\rightarrow$ SMALL[NO PEELING/BAKING]	✗ [NO MENTION IN RECIPE]
DAIKON RADISH	✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]
...		

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BROILING	GRAZING
◎BROWNE[D[NO CUTTING]	✗ [NO MENTION IN RECIPE]
✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]
✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]

FIG. 5B

BY-RECIPE FEATURE-QUANTITY TEMPLATE

SALAD AND DAIKON RADISH SIMMERED IN BROTH

INGREDIENT NAME	CUTTING	PEELING
APPLE	○(QUARTER CUTTING)RED→ RED+WHITE[HARD TO JUDGE SHAPE]	◎RED→WHITE
TOMATO	○(ROUND CUTTING)→ FLAT[HARD TO JUDGE COLOR]	△[COLORED]
DAIKON RADISH	◎(JULIENNE CUTTING)→ THIN STRIP[HARD TO JUDGE COLOR]	△[COLORED]
...		

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BROILING	BRAISING
✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]
✗ [NO MENTION IN RECIPE]	✗ [NO MENTION IN RECIPE]
○BROWNS	✗ [NO MENTION IN RECIPE]

FIG. 7A

INGREDIENT TABLE

INGREDIENT NAME	COLOR (INCLUDING INSIDE INFORMATION)	SHAPE	SIZE	.....
APPLE	OUT;RED( $\Delta$ ),[IN;WHITE]	CIRCLE( $\Delta$ )	5cm x 5cm x 5cm( $\Delta$ )	$\sim R1$
TOMATO	OUT;RED( $\times$ ),[IN;RED]	CIRCLE( $\Delta$ )	5cm x 5cm x 5cm( $\Delta$ )	$\sim R2$
DAIKON RADISH	OUT;WHITE( $\times$ ),[IN;WHITE]	ELLIPSE(O)	5cm x 5cm x 35cm( $\Delta$ )	
...				

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COOKED-FOOD TABLE

COOKING OPERATION	CHANGE IN SHAPE	SIZE	.....
FINE CUTTING	LARGE $\rightarrow$ SMALL, A FEW $\rightarrow$ MANY( $\odot$ )	OUT $\rightarrow$ IN( $\odot$ )	
ROUND SLICING	$\rightarrow$ FLAT SURFACE(O)	OUT $\rightarrow$ OUT+IN(O)	
QUARTER CUTTING	1/4 SPHERE( $\Delta$ )	OUT $\rightarrow$ OUT+IN(O)	
CUTTING (JULIENNE CUTTING)	$\rightarrow$ THIN STRIP( $\odot$ )	OUT $\rightarrow$ IN(O)	
PEELING	LITTLE CHANGE( $\times$ )	OUT $\rightarrow$ IN( $\odot$ )	
BROILING	SLIGHT CHANGE(O)	BROWNING( $\odot$ )	
BRAISING	HARD TO RECOGNIZE( $\times$ )	LARGE CHANGE(O)	

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FIG. 7B

COOKING-OPERATION TABLE

COOKING OPERATION	SOUND	HAND MOTION	.....
FINE CUTTING	CONTINUOUS SOUND/HARD TO TELL FROM JULIENNE CUTTING(O)	QUICK(O)	~R3
ROUND SLICING	CUTTING SOUND( $\Delta$ )	POSSIBLE MISJUDGMENT( $\Delta$ )	
QUARTER CUTTING	CUTTING SOUND( $\Delta$ )	POSSIBLE MISJUDGMENT( $\Delta$ )	
CUTTING (JULIENNE CUTTING)	CONTINUOUS SOUND/HARD TO TELL FROM FINE CUTTING(O)	QUICK(O)	
PEELING	LOW SOUND(x)	HARD TO JUDGE(x)	
BROILING	POSSIBLE MISJUDGMENT( $\Delta$ )	UNABLE TO JUDGE(x)	
BRAISING	POSSIBLE JUDGMENT DELAY(x)	UNABLE TO JUDGE(x)	~T3

## FEATURE-QUANTITY TEMPLATE

FIG. 7C

INGREDIENT NAME	FINE CUTTING	ROUND SLICING
APPLE	X INAPPLICABLE[NO MENU]	ORED→RED+WHITE,A FEW→MANY
TOMATO	Δ→SMALL[SHAPE IS LOST, UNABLE TO JUDGE COLOR]	○→FLAT[HARD TO JUDGE COLOR]
DAIKON RADISH	○→FREQUENTLY[UNABLE TO JUDGE COLOR]	○→FLAT[HARD TO JUDGE COLOR]
...	...	
...	...	

## QUARTER CUTTING      JULIENNE CUTTING

ORED→RED+WHITE[HARD TO JUDGE SHAPE]	X INAPPLICABLE[NO MENU]
○→1/4SPHERE[HARD TO JUDGE COLOR]	X INAPPLICABLE[NO MENU]
○→1/4SPHERE[HARD TO JUDGE COLOR]	○→THIN STRIP[HARD TO JUDGE COLOR]
...	
...	

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PEELING	BROILING	BRAISING
○RED→WHITE	○BROWNED	X INAPPLICABLE
Δ[HARD TO JUDGE]	Δ[HARD TO JUDGE]	×[SHAPE IS LOST]
Δ[HARD TO JUDGE]	OBROWNED	ΔCOLORED
...		
...		